Calypso Reference

METRONOME TECHNOLOGIE

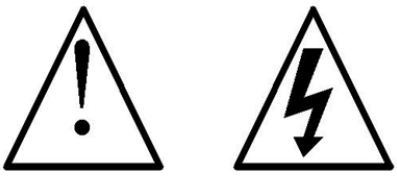
Calypso Reference

CD Transport

Made in France

Warning: Potential Shock Hazard!

This symbol is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance



This symbol is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product 's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

This product uses high voltage. There are no operator serviceable parts inside.
Refer servicing to qualified personnel only.
Observe all warnings and instructions marked on the product.
Use only a grounded outlet.
Do not install or use this product near water or when you are wet.
Install the product securely on a stable surface.
During operation the vacuum tubes (if any) become hot: do not touch.

Information

Marking by the "CE" mark indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) directives of the European Community.

Before operating the unit, please read through these manual so you will know how to operate your model properly.

TABLE OF CONTENTS

1 - PREFACE

2 - IMPORTANT SAFETY INSTRUCTIONS

3 - SETTING UP OVERVIEW

3-1 Unpacking
3-2 Positioning

4 - LOCATION & PARTS DESCRIPTION

4-1 Silent Base
4-2 Elektra Power Supply
    4-2-1 Front panel layout
    4-2-2 Rear panel layout
    4-2-3 New feet & cones
4-3 Calypso Reference CD Transport unit
    4-3-1 Front panel layout
    4-3-2 Rear panel layout
4-4 Remote Layout

5 - OPERATING INSTRUCTIONS

5-1 Elektra Power Supply
5-2 Calypso Reference CD Transport unit
5-3 Protection
5-4 RC1 Remote Control
5-5 Cleaning

6 - SPECIFICATIONS

6-1 Product overview
6-2 Technical data

7 - WARRANTY

CERTIFICATE OF AUTHENTICITY

1 – PREFACE

Congratulations

You have just acquired the finest component to deliver the best sound for the playback of CD audio and musical reproduction. The Top Loaded Calypso Reference CD transport is made from material selected for the ability to deliver the best sound.
This innovative design is an aesthetic way to extract digital information for the best sound from CD media.
The Calypso Reference is the best result of many months of technical research, testing and countless hours of listening.

Company profile

METRONOME TECHNOLOGIE is a French company founded in 1987 by Dominique Giner. They have developed over the years a wide range of High End products. The making of all METRONOME TECHNOLOGIE models comply with two main objectives:

1. Aesthetically pleasing with a high level of quality inside and outside the box.
2. The best possible sound in line with this price range.

Each unit is delivered with vibration draining cone points, fitting 3 Delrin® feet to increase stability and vibrations control. Great care is taken in power supplies engineering and in details which really matter. The compact line is optimized to ensure best mechanical rigidity while working with any décor, assuring a lasting satisfaction in your investment.

2 – IMPORTANT SAFETY INSTRUCTIONS

1. ALWAYS disconnect your entire system from the AC mains before connecting or disconnecting any cables, or when cleaning any component.

2. A three-conductor AC mains power cord which includes an earth ground connection must be used. To prevent shock hazard, all three connections must ALWAYS be used.

3. Original AC main power cord is recommended for use with this product.

4. NEVER use flammable or combustible chemicals for cleaning.

5. NEVER operate this product with removed cover.

6. NEVER wet the inside of this product with any kind of liquid.

7. NEVER pour or spill liquids directly onto this unit.

8. NEVER block air flow through ventilation slots or heat-sinks.

9. NEVER bypass any fuse.

10. NEVER replace any fuse with a value or type other than those specified.

11. NEVER attempt to repair this product: contact your retailer.

12. NEVER expose this product to extremely high or low temperatures.

13. ALWAYS unplug sensitive electronic equipment during lightning storms.

3 – SETTING UP OVERVIEW

3-1 Unpacking

The Calypso Reference has been packed into three cartons:

1. Calypso Reference CD transport unit :
   Small cases with Accessories

   x 1 Black metal Remote Control RC1 with 2 batteries CR2025 type
   x 1 Delrin® CD clamp,
   x 1 Key to dismount the remote control to change the batteries,

2. One Farad Power Supply (Elektra):
   Power cord,
   Very Hugh Quality 16 wires cord between Calypso and Elektra Power Supply.

3. Silent Base:

   x 3 Stainless steel balls,
   x 3 Stainless steel cylinder to apply under Delrin feet.
   x 3 curved stainless steel cylinder.

Carefully unpack the units: take care that you may need the help of a second person to lift it. Carefully preserve packages and protections. They will be useful to properly pack the unit any time shipment is needed. It is the best protection to preserve the unit from damage or delay. Please note that the warranty will be considered as cancelled if the dispatched units are packed incorrectly.

3-2 Positioning

Set down the Calypso on the silent base support. Do not put it straight down a carpet or any flammable material. Connect the Calypso to its Elektra power supply and be sure to turn off the power of all components before making connections and connect securely to prevent noise.

Connect the power cable to the wall outlet.

4 – LOCATION & PARTS DESCRIPTION

4-1 Silent base

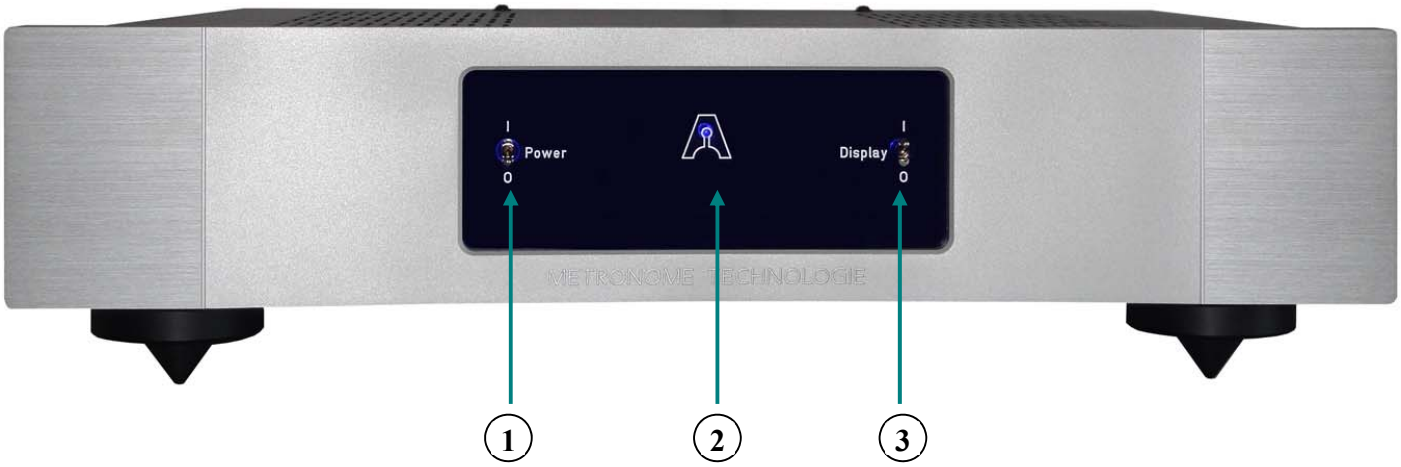
Installation :

1) Place the curved cupels on a strong support,
2) Put the 3 stainless steel balls in the middle of these,
3) Put down the Delrin base with upper feet above.

Finally you can rest the Calypso CD transport like it :

4-2 Elektra power supply for Calypso

4-2-1 Front Panel Layout :



(1) Main switch : "on / off" main power switch for the power supply

(2) Blue Led : Immediately after activated the main current with the switch on the front face of power supply, this led will blinks during approximately 15 seconds. Once all regulations stabilized , this led keeps alight.

(3) Display switch: * up : Calypso's display is ON, * Down : Calypso's display is OFF.

4-2-2 Rear Panel Layout :

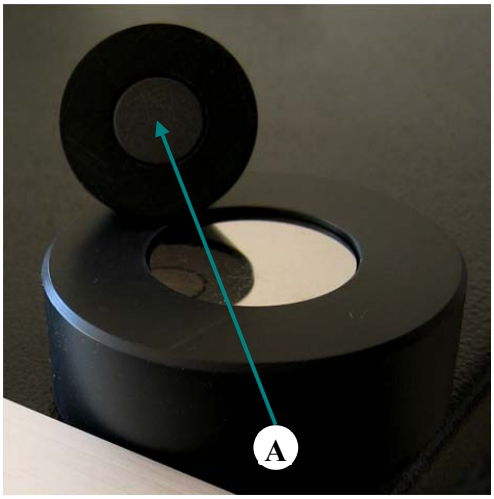
(4) Power Supply Connector: To connect the Elektra power supply to the Calypso CD Transport (Very High Quality 16 wires cable & connector).

(5) Power entry connector to plug the power, fuse compartment is into the chassis, to change fuses if broken you must to unscrew the 8 screws of the top cover.

Due to high capacity (1,2 Farad), the power supply takes some seconds to obtain values desired.

Once the capacitors and voltages come with nominal values, the led will be continuous alight and your Calypso will be started.

4-2-3 Feet & cones:



Ⓐ **Magnet:** This magnet keeps the cone fixed under the foot

4-3 Calypso CD Transport unit

4-3-1 Front Panel Layout:

6 Helmet: It's absolutely necessary to protect the Philips CDM12 Pro mechanical.

7 Previous track: To select the previous track on the cd.

8 Stop: To stop the reading of cd.

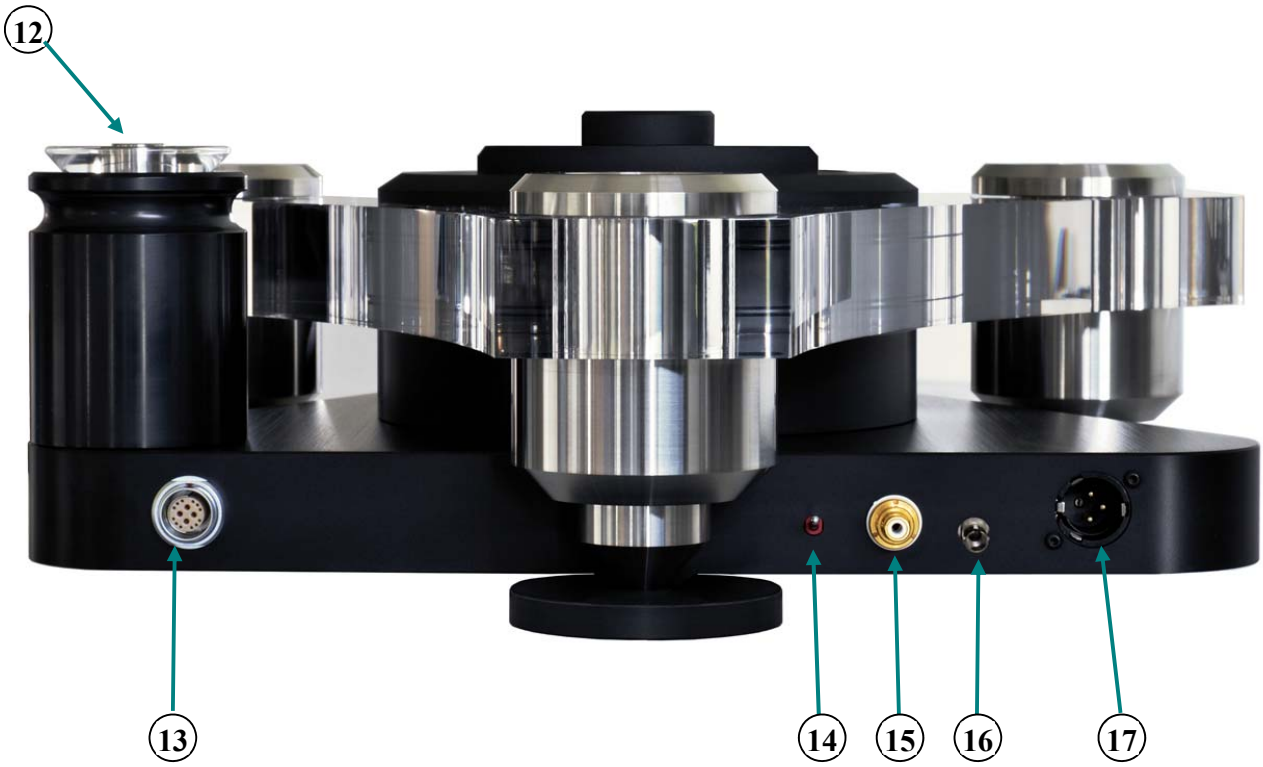
9 Display & IR : To show various information like the number of the track in the course of reading, its state of advance of reading, the repeat functions (1 or all) and pauses ; Infrared Receptor for remote control

10 Play: To start the reading of cd.

11 Next track: To select the next track on the cd.

WARNING: DO NOT APPLY THE CLAMP WHEN NO CD IS PRESENT AND DO NOT PUT IN THE SAME TIME CLAMP & HELMET.

4-3-2 Rear Panel Layout :



12 Clamp holder: You MUST uses it to put the clamp when the casket is present.

13 Power Supply connector: To connect the Elektra power supply with the Calypso CD Transport (16 wires cable).

14 Switch 44,1/96Khz: To choose the frequency of the digital signal built by the up sampler circuit present on the PCB into the Calypso CD Transport.
By using the switch you have 2 values available: 44,1 KHz in down position and 96 KHz in up position.

15 RCA S/PDIF: S/PDIF digital output * (WBT Professional connector quality)

16 OPTICAL: OPTICAL digital output * (High quality Metal plug)

17 AES/EBU: AES/EBU digital output *

* Note: all outputs marked by a star need to go to an external converter

4-4 Remote Control Layout

This remote can operate all the CD drives, pre-amplifiers and integrated amplifiers of the METRONOME TECHNOLOGIE products.

IR Transmitter

Remote control RC1

To activate CD mode press on [CD] key, the remote locks on the CD mode. The available functions are:

Direct access to the disk tracks by pressing on [1] to [0] keys.

PLAY TRACK function by pressing on the key: >

NEXT TRACK function by pressing on key: >>

PREVIOUS TRACK function by pressing on key: <<

PAUSE function by pressing on key: | |

STOP function by pressing on key: □

REPEAT function by pressing on key [REPEAT]: Pressing this key once time, the drive will play the disk indefinitely. Pressing a second time the key, the drive will play the current track indefinitely; and by pressing one more time, the drive will operate on normal play mode.

OPEN function by pressing on key [OPEN], the tray will open. This function is available on electric tray drives only.

STANDBY function by pressing on key [STANDBY], the drive will enter on standby mode. If you have to keep the drive for a long time without use, it is better to switch off the machine with the main switch.

To activate AMP mode, press on [AMP] key. The remote locks on AMP mode. The available functions are:

Direct selection of inputs of pre-amplifier or integrated amplifier by pressing on key [1] to [9]. Number of inputs depends on models.

MUTE function by pressing on key [MUTE]: this function will put the output level at 0dB. Another press will activate the initial output level.

VOLUME – function by pressing on key [VOLUME -]: this function will decrease the output level.

VOLUME + function by pressing on key [VOLUME +]: this function will increase output level.

STANDBY function by pressing on key [STANDBY], the pre-amplifier or integrated amplifier will enter on standby mode. If you have to keep the drive for a long time without use, it is better to switch off the machine with the main switch.

5 - OPERATING INSTRUCTIONS

Before turning on the Calypso Reference, be sure that all precautions and warnings have been carefully reviewed and complied with.

5-1 Elektra Power Supply

Please check to have connected the 16 wires cord between the power supply and the Calypso unit.

Once started the power supply by using the switch on the front panel, the Calypso don't light on immediately, due to high capacitors included inside the power supply. It takes minimum 15 seconds of delay before that the Calypso will be activated. During these some seconds the blue led in front panel is blinking.

These 15 seconds ended, the blue led will be continuous alight and the Calypso's display alights. Enjoy…

5-2 Calypso CD Transport unit

Audio CD initialization:

To initialize Table Of Contents of your audio CD, you have just to put the Perplex clamp on the CD and to wait 5 seconds.

In fact, the Calypso uses an optical detector to check CD availability.

5-3 Protection

The unit is equipped with special protection circuitry to provide maximum performance with greatest reliability. It is protected by internal electronic circuits and by a general fuse situated in the block near the power cord.
To change the fuse, it is imperative to first unplug the power cable, then open the fuse compartment (see photo on Rear Panel Layout) with a screwdriver and replace the fuse by an identical slow blowing model. The machine is delivered with a second fuse.
Note: after a long period without functioning, the fuse may burn out when the power supply is switched on, since there is a very important current consumption lasting a brief instant when the power supply is completely discharged.

5-4 RC1 Remote Control

For a correct function of the remote, we recommend a 40° max angle of incidence with the receptor. The RC1 remote control will operate with 2 batteries CR2025 type button cell. For changing the batteries, unscrew the 3 screws on the back side (key is provided), replace the batteries. Remount the back side. In normal use, capacity of the batteries is a few months. Warning: don't leave used batteries in the remote, they could damage the circuit.

5-5 Cleaning

For cleaning, please use a soft and non abrasive cloth. Never use any solvent or chemical product: only use a window-pane cleaning product.

6 - SPECIFICATIONS

6-1 Product overview

Silent Base :

The Calypso's Silent Base support permits a huge sonic improvement with more silence between musical notes, incredible soundstage and dynamic contrast reproduction. This platform is constituted of one 40 mm sick Perspex par relied by 3 free stainless steel balls feet. This architecture permits free movements on the horizontal plane and an improved vibration isolation. A set of 3 cones is also delivered for more classical combination. The Calypso main unit is sited on top of the Silent Base and linked by its conical feet.

Elektra Power supply (with 1,2 Farad) :

This separated Elektra Power Supply allows removing most of the EMI/RFI pollution coming from the power supply by using a special AC filter especially designed for Metronome Technologie High End products. A new barrier had been passed by the use of independent regulations for each stage, make a total isolation between the Calypso and the rest of the system. This permits to isolate mechanically the sensitive electronics components like crystal oscillator from the vibrations induced by the transformers. Also by the use of totally separated regulations for the different stages (display, servo control, motor, digital output stage) the level of noise and capability of silence reproduction are increased by a wide margin.

The display could also be put OFF by a selector on the power supply rear panel: all electrical noise coming from the display is removed and the sound is again one step better.

Transport Module :

Top loaded CD Transport based on the Philips CDM12 PRO drive for the laser, servo and control functions. Proprietary modifications are made to the Philips mechanism to suit the Metronome specifications.
Clamp and shaft, specially designed are used to maintain for the best the CD in place. Both the use of a special stainless steel and a Perspex clamp made of Delrin permit to reproduce the best sound possible with low jitter since the reading is at the pit level.
"Continuous Ground" link from the disc surface to the electrical earth: lower level of CD static charges and better working condition for the reading electronic.
Lightning of the CD surface and thickness for better information extraction: the light come inside of the disk through the transparent Perspex clamp. A specially designed transparent "helmet" protect the reading mechanism when the unit is not in use.

6-2 Technical data

●PICKUP MECHANISM:

- CDM12PRO V6.8

● OUTPUTS: 4 outputs

- 1 ATT/ST : Glass fiber optic this link allows a total electric isolation between the drive and the converter.
- 1 RCA S/PDIF : 75 ohms
- 1 AES/EBU : 110 ohms

● UP-SAMPLER:

- Dynamic Range: 120dB Min
- Total Harmonic Distortion: -110dB Max
- Resolution: 24 Bit
- Gain Error: 0.12dB Max
- Pass band ripple: 0.007 dB Max
- Interchannel Phase Deviation: 0.0°

● ELEKTRA POWER SUPPLY:

- Voltage: 100 VAC +/- 10% - 50/60 Hz - Japan
- Voltage: 120 / 240 VAC +/- 10% - 50/60 Hz – Other countries
- Consumption: 100 VA Max

● CASKETS:

Dimensions CD transport : W x L x H : 610 x 590 x 340 (dim en mm)
Dimensions Power supply : W x L x H : 590 x 570 x 240 (dim en mm)
Dimensions Silent base : W x L x H : 610 x 590 x 85 (dim en mm)

Weight CD transport: 25 Kg / 55 lbs
Weight Power supply: 20 Kg / 43 lbs
Weight Silent base: 11 Kg / 24 lbs

7 - WARRANTY

METRONOME TECHNOLOGIE products are warranted to be free of defects if used under normal conditions for a period of one (1) year from the date of purchase.

Conditions

This warranty is subject to the following conditions and limitations. The warranty is void and inapplicable if the product has been used or handled other than in accordance with the instructions in the owner's manual, abused or misused, damaged by accident or neglect or in being transported, or if the defect is due to the product being repaired or tampered with or modified by anyone other than METRONOME TECHNOLOGIE or an authorized repair center, or in case of removal, defacing or falsifying of the serial numbers.

Remedy

In each country the Importer has accepted the responsibility for product warranty. In the unlikely event that the product requires service, warranty service should normally be obtained from the importing dealer or distributor from which you purchased your unit. A return authorization prior to shipment must be obtained for any warranty requirements. The product must be packed and returned to the address given with the return authorization.

Miscellaneous

Any implied warranties relating to the above product shall be limited to the duration of this warranty. The warranty does not extend to any incidental or consequential costs or damages to the purchaser.